

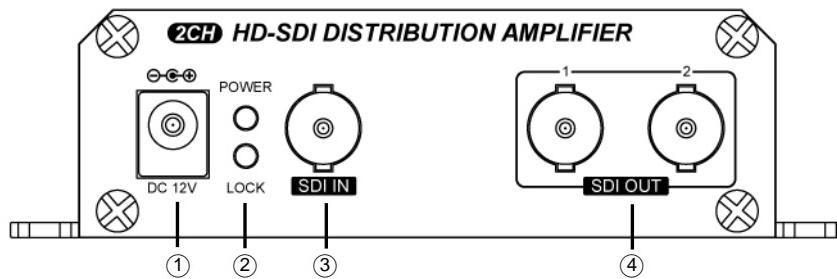
2-CH HD-SDI DISTRIBUTION AMPLIFIER USER MANUAL

MODEL: 15-SD102

1. Key Features

- Supports high-definition HD-SDI digital video at 720p60, 1080i60 and 1080p30 formats at all frame rates.
- Supports HD-SDI signals at data rates up to 3G-SDI video.
- Passes embedded audio, ancillary ID, and metadata information.
- Automatic input equalization improves signal transmission distances.
- Automatically adapts to SMPTE and ITU digital video standard formats.

2. Panel View



- ①. DC+12V INPUT
- ②. POWER ON and HD-SDI SIGNAL LOCKED LEDs
- ③. HD-SDI INPUT
- ④. HD-SDI OUTPUT

3. Caution for Installation

- 3.1 Be careful, never let any water in this equipment.
- 3.2 If necessary, use a soft cloth moistened with alcohol to wipe off the dust.
- 3.3 Be extra careful not to shake the unit.
- 3.4 Avoid places where temperatures exceed 55°C or higher.
- 3.5 Avoid places where there are frequent vibrations or shocks. When any abnormalities occur, make sure to unplug the unit and contact your local dealer.

4. Cable Installation

- 4.1 The coaxial cable is not squeezed at any position and the maximum bending radius defined by the cable manufacturer should be considered.
- 4.2 Bending creates pressure on the center conductor, causing it to move through the dielectric toward the inside of the bend. It would be caused to the impedance matching and return loss (signal reflection) problems, then reduces the maximum possible cable length and signal quality and reliability.
- 4.3 Avoid any BNC - adapter or any connectors in the BNC cable. Looping HD-SDI signals by BNC T-connectors to other devices is not possible.

5. Packing

5.1 Distribution Amplifier	x1
5.2 User manual	x1
5.3 Screws	x4
5.4 Plastic-Conical-Anchor	x4
5.5 Power Adaptor	x1 [Option]

6. Specification

Video	
Gain	Unity
Signal Formats	HD-SDI, or 3G-SDI digital component video
Input Data Rate	1.485Gbps / 2.97Gbps
Min. Input Level	0.5Vp-p
Max. Input Level	1.0Vp-p
Output Level	0.8Vp-p typical
Input Cable Length	<p>■1.485Gbps: 170 m (550') using RG6 cable 120 m (400') using RG59 cable</p> <p>■2.970Gbps: 100 m (330') using RG6 cable 70 m (230') using RG59 cable</p>
Auto data rate detection	Yes
Impedance	75Ω
Input Connector	BNC × 1
Output Connector	BNC × 2
Indicators	
Red LED	Power On
Green Led	HD-SDI Input Locked
Power	
Input Voltage	12.0 -2.0/+2.0 VDC
Input Current	<100 mA @ 12 VDC
Input Connector	DC-JACK
Mechanical & Environmental	
Weight (without antenna)	< 150g (5.3 oz)
Dimensions (W × L × H)	110 × 62 × 30mm (4.33" × 2.44" × 1.18")
Operation Temperature	-10°C ~ 55°C
Storage Temperature	-30°C ~ 85°C